

Total Suspended Solids (TSS) Dried at 103 - 105°C
SM 18th/19th 2540 D

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Facility Name: _____ VELAP ID _____

Assessor Name: _____ Analyst Name: _____ Inspection Date _____

Relevant Aspect of Standards**Method
Reference****Y****N****N/A****Comments**

Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

Glass fiber filters are Whatman grade 934AH; Gelman type A/E, Millipore type AP40, E-D Scientific Specialties grade 161, or other product that gives demonstrably equivalent results.

2540D.3.b,
2540C.2.a

For nonhomogenous samples such as wastewater influent, filters are large enough to permit filtering a representative sample.

2540D.3.b

Filters are prepared by inserting wrinkled side up into the filtration apparatus, washing with three successive 20 mL portions of reagent-grade water, drying at 103-105°C for one hour, and storing in a desiccator.

2540D.3.a

Is the moisture content of desiccant monitored?

2540 B 2.d

Samples are either stirred while pipetting or shaken well before pouring into a graduated cylinder.

2540D.3.c*

Selected sample volume yields between 10 and 200 mg dried residue.

2540D.3.b,
2540C.3.c

Sample filtration is completed within 10 minutes.

2540D.3.b,
2540C.3.c

After filtering samples, filters are washed with 3 successive 10 mL volumes of distilled water while vacuum is applied, allowing complete drainage between rinses.

2540D.3.c

Suction is continued for about 3 minutes after rinsing the filtered sample.

2540D.3.c

Filters (or gooch crucible and filter combinations) are dried for at least one hour at 103 - 105°C, cooled in a desiccator, and weighed.

2540D.3.c

The drying, cooling, desiccating, and weighing cycle is repeated for all samples until a constant weight is obtained or the weight change is less than 4% of the previous weight or 0.5 mg, whichever is less.

2540D.3.c

Results are calculated according to the method.

2540D.4

Are at least 10% of samples (or one per batch) analyzed in duplicate?

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Notes/Comments: *The use of graduated cylinders for TSS is approved by EPA:
<http://www.epa.gov/waterscience/methods/update/questions.html#tss>